

## ABSTRACT

A thermally insulating tile floor covering system comprising a water resistant, inorganic, thermal air-gap plastic barrier tile layer which is provided with a network of integral spaced plastic studs, legs or wall sections on the underside thereof, to form an interconnected space network between the undersurface of the flat plastic tile and the surface of a concrete floor supporting the tile. The space network provides an insulating thermal air gap barrier space to receive and circulate any water vapor penetrating up through the concrete floor.